

ABSTRACT

An operating apparatus 1 of the present invention has a driven element 5, a frame 4 having a contacted element 51 and rotatably supporting the driven element 5, and an ultrasonic motor. The ultrasonic motor includes a vibrating element 6. The vibrating element 6 includes a first piezoelectric element 62 that undergoes extension and contraction by application of an AC voltage, a reinforcing plate 63 having a contact portion 66 and an arm portion 68, and a second piezoelectric element 64 that undergoes extension and contraction by application of an AC voltage. The first piezoelectric element 62, the reinforcing plate 63, and the second piezoelectric element 64 are laminated in this order. The vibrating element 6 is fixedly mounted on the driven element 5 in a state where the contact portion 66 abuts on the contacted element 51. Further, the vibrating element 6 receives reaction force from the contacted element 51 when the vibrating element 6 vibrates so that the driven element 5 is rotated together with the vibrating element 6 by means of the reaction force.